

Exam. Code : 103204
Subject Code : 1358

B.A./B.Sc. Semester—IV
ZOO—IV B : ZOOLOGY
(Animal Physiology)

Time Allowed—3 Hours] [Maximum Marks—35

Note :— Section A is compulsory. Attempt **ONE** question from each unit of Section B. All questions carry equal marks.

SECTION—A

I. Give brief answers to the following :

- (i) Extracellular digestion
- (ii) Microcirculation
- (iii) Osmoregulation
- (iv) Blood pressure
- (v) Renal Corpuscle
- (vi) Resting membrane potential.
- (vii) Instinctive learning. 1×7=7

SECTION—B**UNIT—I**

- II. Give an account of digestion of dietary constituents.
- III. Describe Oxygen-dissociation curve of haemoglobin. Explain chloride shift.

UNIT—II

- IV. Give a detailed account of mechanism of blood coagulation.
- V. Describe the origin and conduction of heart beat.

UNIT—III

- VI. Describe ultrastructure of skeletal muscle.
- VII. Explain structure and functions of chemical synapse.

UNIT—IV

- VIII. Give an account of physiological functions of corticosteroids and growth hormone.
- IX. Describe the hormones produced by neurohypophysis and their functions. $4 \times 7 = 28$